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Production of transgenic fish: introduction and expression of chicken delta-crystallin gene in medaka embryos.

Ozato K, Kondoh H, Inohara H, Iwamatsu T, Wakamatsu Y, Okada TS.

To produce a model of transgenic fish, recombinant plasmids containing chicken delta-crystallin gene were microinjected into the oocyte nucleus of a small teleost, medaka (*Oryzias latipes*). About 50% of the microinjected oocytes developed to 7-day-old embryos. By Southern blotting delta-crystallin gene was detected in 4 of 8 embryos, and, by Western blotting, delta-crystallin polypeptides in 5 of 16. In 1 of 6 examined histologically, delta-crystallin DNA was detected in all the tissues, and delta-crystallin polypeptides, in many of the tissues including the lens. Thus, the exogenous gene and/or its products were detected in 10 of 30 embryos examined. This is the first report of successful production of transgenic fish.

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